

#### Jim Bohlk

Electric Staff Division Distribution Branch

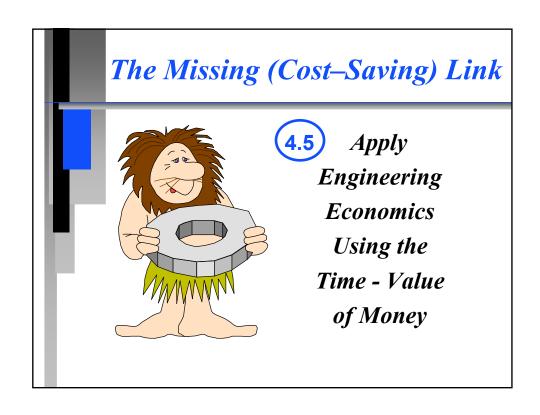
#### RUS Bulletin 1724D-101

"Electric Distribution System Long-Range Planning Guide"

- Recently updated with new guidelines
- Organized like standard, engineering problem-solving procedure
- New guidelines promote methods to minimize future costs

## **Problem Solving & Planning**

- 1. Gather & Analyze Data & Information
- 2. Define the Problem
- 3. Determine All Feasible Solutions
- 4. Analyze & Compare Each Solution
- 5. Determine & Recommend Best Solution
- 6. Justify & Document Recommendations



### New General Guidelines



- Use a "One System" approach
- Loads need to be consistent with system's Load Forecasting Study
- Planning period long enough to stress the system
- Intermediate plans are optional

# Planning By Areas; A New Viable Option

("Areas" are regions with similar load growths and characteristics.)

- Disadvantages of traditionally LRP
- Fast-growing areas: More timely planning
- Slow-growing areas: Postpones new LRP
- Each "area plan" may have different planning period
- "Area" planning makes conversions to higher voltages more attractive



- Defines the standards for the system
- Developed by Engineer
- Needs agreement before study begins
- Address all aspects of the system
- Needs documentation and explanation



### Gather Information and ...

#### Analyze Historical Data

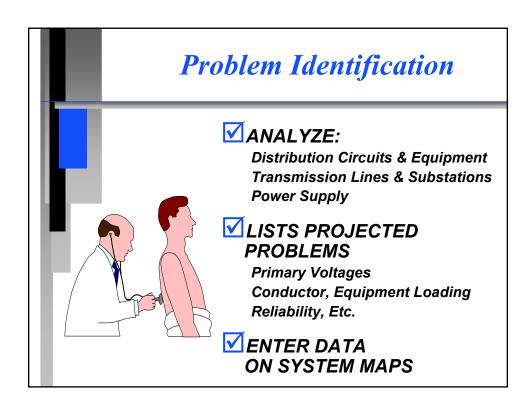
(Only compile data used in and for study)

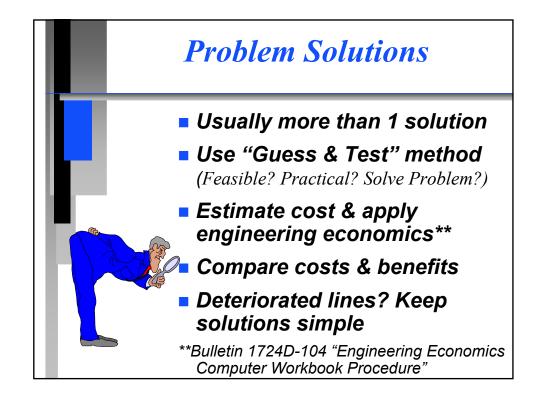
#### **Analyze Studies, Plans & Programs**

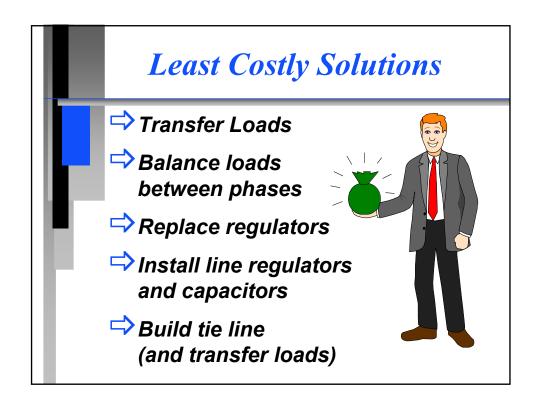
(Write concise summary reports regarding impact)

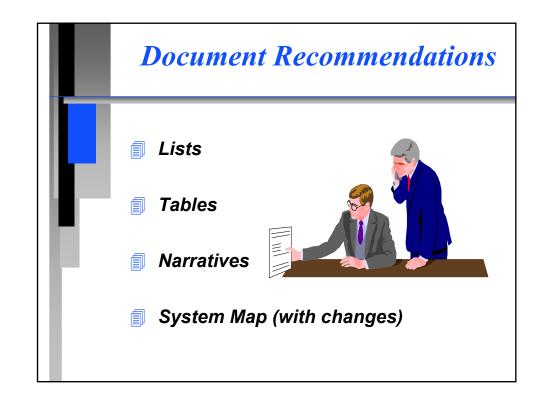


**Update Maps & Computer Model** 













- RUS "acceptable" format and details in bulletin
- Keep document short and to the point
- Map conditions of system before and recommendations
- Explain and "justify" recommendations

### Presentation and Approval



Present to Manager, GFR, Power Supplier & Board

Answer Questions and Modify as Needed Needs Approval by Board Resolution

